SEQUENCE LISTING

<110> ABBOTT, Catherine Anne
      GORRELL, Mark Douglas

<120> DIPEPTIDYL PEPTIDASES

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<150> PCT/AU00/01085
<151> 2000-09-11

<150> AU PQ5709
<151> 2000-02-18

<150> AU PQ2762
<151> 1999-09-10

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<170> FastSEQ for Windows Version 4.0

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<212> PRT
<213> Homo Sapiens

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Glu Pro Phe Tyr Val Glu Arg Tyr Ser Trp Ser Gln Leu Lys Lys Leu
            35   40   45
Leu Ala Asp Thr Arg Lys Tyr His Gly Tyr Met Met Ala Lys Ala Pro
        50   55   60
His Asp Phe Met Phe Val Lys Arg Asn Asp Pro Asp Gly Pro His Ser
65   70   75   80
Asp Arg Ile Tyr Tyr Leu Ala Met Ser Gly Glu Asn Arg Glu Asn Thr
                85   90   95
Leu Phe Tyr Ser Glu Ile Pro Lys Thr Ile Asn Arg Ala Ala Val Leu
            100   105   110
Met Leu Ser Trp Lys Pro Leu Leu Asp Leu Phe Gln Ala Thr Leu Asp
            115   120   125
Tyr Gly Met Tyr Ser Arg Glu Glu Glu Leu Leu Arg Glu Arg Lys Arg
        130   135   140
Ile Gly Thr Val Gly Ile Ala Ser Tyr Asp Tyr His Gln Gly Ser Gly
145   150   155   160
Thr Phe Leu Phe Gln Ala Gly Ser Gly Ile Tyr His Val Lys Asp Gly
                165   170   175
Gly Pro Gln Gly Phe Thr Gln Gln Pro Leu Arg Pro Asn Leu Val Glu

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Thr Ser Cys Pro Asn Ile Arg Met Asp Pro Lys Leu Cys Pro Ala Asp
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Pro Asp Trp Ile Ala Phe Ile His Ser Asn Asp Ile Trp Ile Ser Asn
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Ile Val Thr Arg Glu Glu Arg Arg Leu Thr Tyr Val His Asn Glu Leu
225                   230                   235                   240
Ala Asn Met Glu Glu Asp Ala Arg Ser Ala Gly Val Ala Thr Phe Val
            245                   250                   255
Leu Gln Glu Glu Phe Asp Arg Tyr Ser Gly Tyr Trp Trp Cys Pro Lys
            260                   265                   270
Ala Glu Thr Thr Pro Ser Gly Gly Lys Ile Leu Arg Ile Leu Tyr Glu
            275                   280                   285
Glu Asn Asp Glu Ser Glu Val Glu Ile Ile His Val Thr Ser Pro Met
    290                   295                   300
Leu Glu Thr Arg Arg Ala Asp Ser Phe Arg Tyr Pro Lys Thr Gly Thr
305                   310                   315                   320
Ala Asn Pro Lys Val Thr Phe Lys Met Ser Glu Ile Met Ile Asp Ala
            325                   330                   335
Glu Gly Arg Ile Ile Asp Val Ile Asp Lys Glu Leu Ile Gln Pro Phe
            340                   345                   350
Glu Ile Leu Phe Glu Gly Val Glu Tyr Ile Ala Arg Ala Gly Trp Thr
            355                   360                   365
Pro Glu Gly Lys Tyr Ala Trp Ser Ile Leu Leu Asp Arg Ser Gln Thr
    370                   375                   380
Arg Leu Gln Ile Val Leu Ile Ser Pro Glu Leu Phe Ile Pro Val Glu
385                   390                   395                   400
Asp Asp Val Met Glu Arg Gln Arg Leu Ile Glu Ser Val Pro Asp Ser
            405                   410                   415
Val Thr Pro Leu Ile Ile Tyr Glu Glu Thr Thr Asp Ile Trp Ile Asn
            420                   425                   430
Ile His Asp Ile Phe His Val Phe Pro Gln Ser His Glu Glu Glu Ile
        435                   440                   445
Glu Phe Ile Phe Ala Ser Glu Cys Lys Thr Gly Phe Arg His Leu Tyr
    450                   455                   460
Lys Ile Thr Ser Ile Leu Lys Glu Ser Lys Tyr Lys Arg Ser Ser Gly
465                   470                   475                   480
Gly Leu Pro Ala Pro Ser Asp Phe Lys Cys Pro Ile Lys Glu Glu Ile
            485                   490                   495
Ala Ile Thr Ser Gly Glu Trp Glu Val Leu Gly Arg His Gly Ser Asn
        500                   505                   510
Ile Gln Val Asp Glu Val Arg Arg Leu Val Tyr Phe Glu Gly Thr Lys
    515                   520                   525
Asp Ser Pro Leu Glu His His Leu Tyr Val Val Ser Tyr Val Asn Pro
    530                   535                   540
Gly Glu Val Thr Arg Leu Thr Asp Arg Gly Tyr Ser His Ser Cys Cys
545                   550                   555                   560
Ile Ser Gln His Cys Asp Phe Phe Ile Ser Lys Tyr Ser Asn Gln Lys
            565                   570                   575
Asn Pro His Cys Val Ser Leu Tyr Lys Leu Ser Ser Pro Glu Asp Asp
        580                   585                   590
Pro Thr Cys Lys Thr Lys Glu Phe Trp Ala Thr Ile Leu Asp Ser Ala
        595                   600                   605
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Gly Pro Leu Pro Asp Tyr Thr Pro Pro Glu Ile Phe Ser Phe Glu Ser
    610                 615                 620
Thr Thr Gly Phe Thr Leu Tyr Gly Met Leu Tyr Lys Pro His Asp Leu
625                 630                 635                 640
Gln Pro Gly Lys Lys Tyr Pro Thr Val Leu Phe Ile Tyr Gly Gly Pro
                645                 650                 655
Gln Val Gln Leu Val Asn Asn Arg Phe Lys Gly Val Lys Tyr Phe Arg
                660                 665                 670
Leu Asn Thr Leu Ala Ser Leu Gly Tyr Val Val Val Val Ile Asp Asn
                675                 680                 685
Arg Gly Ser Cys His Arg Gly Leu Lys Phe Glu Gly Ala Phe Lys Tyr
    690                 695                 700
Lys Met Gly Gln Ile Glu Ile Asp Asp Gln Val Glu Gly Leu Gln Tyr
705                 710                 715                 720
Leu Ala Ser Arg Tyr Asp Phe Ile Asp Leu Asp Arg Val Gly Ile His
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Gly Trp Ser Tyr Gly Gly Tyr Leu Ser Leu Met Ala Leu Met Gln Arg
                740                 745                 750
Ser Asp Ile Phe Arg Val Ala Ile Ala Gly Ala Pro Val Thr Leu Trp
    755                 760                 765
Ile Phe Tyr Asp Thr Gly Tyr Thr Glu Arg Tyr Met Gly His Pro Asp
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Gln Asn Glu Gln Gly Tyr Tyr Leu Gly Ser Val Ala Met Gln Ala Glu
785                 790                 795                 800
Lys Phe Pro Ser Glu Pro Asn Arg Leu Leu Leu Leu His Gly Phe Leu
                805                 810                 815
Asp Glu Asn Val His Phe Ala His Thr Ser Ile Leu Leu Ser Phe Leu
                820                 825                 830
Val Arg Ala Gly Lys Pro Tyr Asp Leu Gln Ile Tyr Pro Gln Glu Arg
    835                 840                 845
His Ser Ile Arg Val Pro Glu Ser Gly Glu His Tyr Glu Leu His Leu
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Leu His Tyr Leu Gln Glu Asn Leu Gly Ser Arg Ile Ala Ala Leu Lys
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Val Ile
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<212> DNA
<213> Homo Sapiens

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```
Phe Glu Gly Thr Lys Asp Ser Pro Leu Glu His His Leu Tyr Val Val
 1               5                   10                  15
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Ser Tyr Val Asn Pro Gly Glu Val Thr Arg Leu Thr Asp Arg Gly Tyr
            20              25              30
Ser His Ser Cys Cys Ile Ser Gln His Cys Asp Phe Phe Ile Ser Lys
        35              40              45
Tyr Ser Asn Gln Lys Asn Pro His Cys Val Ser Leu Tyr Lys Leu Ser
    50              55              60
Ser Pro Glu Asp Asp Pro Thr Cys Lys Thr Lys Glu Phe Trp Ala Thr
65              70              75              80
Ile Leu Asp Ser Ala Gly Pro Leu Pro Asp Tyr Thr Pro Pro Glu Ile
            85              90              95
Phe Ser Phe Glu Ser Thr Thr Gly Phe Thr Leu Tyr Gly Met Leu Tyr
            100             105             110
Lys Pro His Asp Leu Gln Pro Gly Lys Lys Tyr Pro Thr Val Leu Phe
        115             120             125
Ile Tyr Gly Gly Pro Gln Gly Gln Ile Glu Ile Asp Asp Gln Val Glu
    130             135             140
Gly Leu Gln Tyr Leu Ala Ser Arg Tyr Asp Phe Ile Asp Leu Asp Arg
145             150             155             160
Val Gly Ile His Gly Trp Ser Tyr Gly Gly Tyr Leu Ser Leu Met Ala
            165             170             175
Leu Met Gln Arg Ser Asp Ile Phe Arg Val Ala Ile Ala Gly Ala Pro
            180             185             190
Val Thr Leu Trp Ile Phe Tyr Asp Thr Gly Tyr Thr Glu Arg Tyr Met
            195             200             205
Gly His Pro Asp Gln Asn Glu Gln Gly Tyr Tyr Leu Gly Ser Val Ala
    210             215             220
Met Gln Ala Glu Lys Phe Pro Ser Glu Pro Asn Arg Leu Leu Leu Leu
225             230             235             240
His Gly Phe Leu Asp Glu Asn Val His Phe Ala His Thr Ser Ile Leu
            245             250             255
Leu Ser Phe Leu Val Arg Ala Gly Lys Pro Tyr Asp Leu Gln Ile Tyr
            260             265             270
Pro Gln Glu Arg His Ser Ile Arg Val Pro Glu Ser Gly Glu His Tyr
            275             280             285
Glu Leu His Leu Leu His Tyr Leu Gln Glu Asn Leu Gly Ser Arg Ile
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Ala Ala Leu Lys Val Ile
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<211> 1197
<212> DNA
<213> Homo Sapiens

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aaagtactac tggatttaca ttgtatggga tgctctacaa gcctcatgat ctacagcctg 360
gaaagaaata tcctactgtg ctgttcatat atggtggtcc tcagggtcaa atagaaattg 420
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tacatggttt cctggatgag aatgtccatt ttgcacatac cagtatatta ctgagttttt 780
tagtgagggc tggaaagcca tatgatttac agatctatcc tcaggagaga cacagcataa 840
gagttcctga atcgggagaa cattatgaac tgcatctttt gcactacctt caagaaaacc 900
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atcacatttt gatacctgcc atgtaacatc tactcctgaa aataaatgtg gtgccatgca 1080
ggggtctacg gtttgtggta gtaatctaat accttaccc cacatgctca aaatcaaatg 1140
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<212> PRT
<213> Homo Sapiens

<400> 5
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            20                  25                  30
Gln Pro Phe Glu Ile Leu Phe Glu Gly Val Glu Tyr Ile Ala Arg Ala
            35                  40                  45
Gly Trp Thr Pro Glu Gly Lys Tyr Ala Trp Ser Ile Leu Leu Asp Arg
        50                  55                  60
Ser Gln Thr Arg Leu Gln Ile Val Leu Ile Ser Pro Glu Leu Phe Ile
65                  70                  75                  80
Pro Val Glu Asp Asp Val Met Glu Arg Gln Arg Leu Ile Glu Ser Val
                85                  90                  95
Pro Asp Ser Val Thr Pro Leu Ile Ile Tyr Glu Glu Thr Thr Asp Ile
            100                 105                 110
Trp Ile Asn Ile His Asp Ile Phe His Val Phe Pro Gln Ser His Glu
            115                 120                 125
Glu Glu Ile Glu Phe Ile Phe Ala Ser Glu Cys Lys Thr Gly Phe Arg
            130                 135                 140
His Leu Tyr Lys Ile Thr Ser Ile Leu Lys Glu Ser Lys Tyr Lys Arg
145                 150                 155                 160
Ser Ser Gly Gly Leu Pro Ala Pro Ser Asp Phe Lys Cys Pro Ile Lys
                165                 170                 175
Glu Glu Ile Ala Ile Thr Ser Gly Glu Trp Glu Val Leu Gly Arg His
            180                 185                 190
Gly Ser Asn Ile Gln Val Asp Glu Val Arg Arg Leu Val Tyr Phe Glu
            195                 200                 205
Gly Thr Lys Asp Ser Pro Leu Glu His His Leu Tyr Val Val Ser Tyr
        210                 215                 220
Val Asn Pro Gly Glu Val Thr Arg Leu Thr Asp Arg Gly Tyr Ser His
225                 230                 235                 240
Ser Cys Cys Ile Ser Gln His Cys Asp Phe Phe Ile Ser Lys Tyr Ser
                245                 250                 255
Asn Gln Lys Asn Pro His Cys Val Ser Leu Tyr Lys Leu Ser Ser Pro
```

```
          260                     265                     270
Glu Asp Asp Pro Thr Cys Lys Thr Lys Glu Phe Trp Ala Thr Ile Leu
        275                     280                     285
Asp Ser Ala Gly Pro Leu Pro Asp Tyr Thr Pro Pro Glu Ile Phe Ser
        290                     295                     300
Phe Glu Ser Thr Thr Gly Phe Thr Leu Tyr Gly Met Leu Tyr Lys Pro
305                     310                     315                320
His Asp Leu Gln Pro Gly Lys Lys Tyr Pro Thr Val Leu Phe Ile Tyr
                325                     330                     335
Gly Gly Pro Gln Val Ala Ile Ala Gly Ala Pro Val Thr Leu Trp Ile
            340                     345                     350
Phe Tyr Asp Thr Gly Tyr Thr Glu Arg Tyr Met Gly His Pro Asp Gln
        355                     360                     365
Asn Glu Gln Gly Tyr Tyr Leu Gly Ser Val Ala Met Gln Ala Glu Lys
    370                     375                     380
Phe Pro Ser Glu Pro Asn Arg Leu Leu Leu Leu His Gly Phe Leu Asp
385                     390                     395                400
Glu Asn Val His Phe Ala His Thr Ser Ile Leu Leu Ser Phe Leu Val
                405                     410                     415
Arg Ala Gly Lys Pro Tyr Asp Leu Gln Ile Tyr Pro Gln Glu Arg His
            420                     425                     430
Ser Ile Arg Val Pro Glu Ser Gly Glu His Tyr Glu Leu His Leu Leu
        435                     440                     445
His Tyr Leu Gln Glu Asn Leu Gly Ser Arg Ile Ala Ala Leu Lys Val
    450                     455                     460
Ile
465
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<211> 1669
<212> DNA
<213> Homo Sapiens

<400> 6
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aggagttgaa tatattgcca gagctggatg gactcctgag ggaaaatatg cttggtccat  180
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gacgccacta attatctatg aagaaacaac agacatctgg ataaatatcc atgacatctt  360
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aattaccagt ggtgaatggg aagttcttgg ccggcatgga tctaatatcc aagttgatga  600
agtcagaagg ctggtatatt ttgaaggcac caaagactcc cctttagagc atcacctgta  660
cgtagtcagt tacgtaaatc ctggagaggt gacaaggctg actgaccgtg ctactcaca  720
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tccacactgt gtgtcccttt acaagctatc aagtcctgaa gatgacccaa cttgcaaaac  840
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```
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gccatatgat ttacagatct atcctcagga gagacacagc ataagagttc ctgaatcggg 1320
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<210> 7
<211> 360
<212> PRT
<213> Homo Sapiens

<400> 7

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            20                  25                  30
Thr Pro Ser Gly Gly Lys Ile Leu Arg Ile Leu Tyr Glu Glu Asn Asp
            35                  40                  45
Glu Ser Glu Val Glu Ile Ile His Val Thr Ser Pro Met Leu Glu Thr
        50                  55                  60
Arg Arg Ala Asp Ser Phe Arg Tyr Pro Lys Thr Gly Thr Ala Asn Pro
65                  70                  75                  80
Lys Val Thr Phe Lys Met Ser Glu Ile Met Ile Asp Ala Glu Gly Arg
                85                  90                  95
Ile Ile Val Asp Glu Val Arg Arg Leu Val Tyr Phe Glu Gly Thr Lys
                100                 105                 110
Asp Ser Pro Leu Glu His His Leu Tyr Val Val Ser Tyr Val Asn Pro
            115                 120                 125
Gly Glu Val Thr Arg Leu Thr Asp Arg Gly Tyr Ser His Ser Cys Cys
        130                 135                 140
Ile Ser Gln His Cys Asp Phe Phe Ile Ser Lys Tyr Ser Asn Gln Lys
145                 150                 155                 160
Asn Pro His Cys Val Ser Leu Tyr Lys Leu Ser Ser Pro Glu Asp Asp
                165                 170                 175
Pro Thr Cys Lys Thr Lys Glu Phe Trp Ala Thr Ile Leu Asp Ser Ala
            180                 185                 190
Gly Pro Leu Pro Asp Tyr Thr Pro Pro Glu Ile Phe Ser Phe Glu Ser
            195                 200                 205
Thr Thr Gly Phe Thr Leu Tyr Gly Met Leu Tyr Lys Pro His Asp Leu
        210                 215                 220
Gln Pro Gly Lys Lys Tyr Pro Thr Val Leu Phe Ile Tyr Gly Gly Pro
225                 230                 235                 240
Gln Val Gln Leu Val Asn Asn Arg Phe Lys Gly Val Lys Tyr Phe Arg
                245                 250                 255
Leu Asn Thr Leu Ala Ser Leu Gly Tyr Val Val Val Val Ile Asp Asn
            260                 265                 270
Arg Gly Ser Cys His Arg Gly Leu Lys Phe Glu Gly Ala Phe Lys Tyr
            275                 280                 285
```

```
Lys Met Gly Gln Ile Glu Ile Asp Asp Gln Val Glu Gly Leu Gln Tyr
    290                 295                 300
Leu Ala Ser Arg Tyr Asp Phe Ile Asp Leu Asp Arg Val Gly Ile His
305                 310                 315                 320
Gly Trp Ser Tyr Gly Gly Tyr Leu Ser Leu Met Ala Leu Met Gln Arg
                325                 330                 335
Ser Asp Ile Phe Arg Val Ala Ile Ala Gly Ala Pro Val Thr Leu Trp
                340                 345                 350
Ile Phe Tyr Asp Thr Gly Tyr Thr
            355                 360
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<210> 8
<211> 1083
<212> DNA
<213> Homo Sapiens

<400> 8

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tatgttggaa acaaggaggg cagattcatt ccgttatcct aaaacaggta cagcaaatcc 240
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gtacgtagtc agttacgtaa atcctggaga ggtgacaagg ctgactgacc gtggctactc 420
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Asp Arg Ile Tyr Tyr Leu Ala Met Ser Gly Glu Asn Arg Glu Asn Thr
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Met Leu Ser Trp Lys Pro Leu Leu Asp Leu Phe Gln Ala Thr Leu Asp
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Pro Asp Trp Ile Ala Phe Ile His Ser Asn Asp Ile Trp Ile Ser Asn
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Glu Ile Leu Phe Glu Gly Val Glu Tyr Ile Ala Arg Ala Gly Trp Thr
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Pro Glu Gly Lys Tyr Ala Trp Ser Ile Leu Leu Asp Arg Ser Gln Thr
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Arg Leu Gln Ile Val Leu Ile Ser Pro Glu Leu Phe Ile Pro Val Glu
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1.ST25.txt

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545             550             555             560

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            565             570             575

Asn Pro His Cys Val Ser Leu Tyr Lys Leu Ser Ser Pro Glu Asp Asp
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Gln Pro Gly Lys Lys Tyr Pro Thr Val Leu Phe Ile Tyr Gly Gly Pro
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Gln Val Gln Leu Val Asn Asn Arg Phe Lys Gly Val Lys Tyr Phe Arg
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Lys Met Gly Gln Ile Glu Ile Asp Asp Gln Val Glu Gly Leu Gln Tyr
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Leu Ala Ser Arg Tyr Asp Phe Ile Asp Leu Asp Arg Val Gly Ile His
            725             730             735

Gly Trp Ser Tyr Gly Gly Tyr Leu Ser Leu Met Ala Leu Met Gln Arg
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Page 3

1.ST25.txt

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1.ST25.txt
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Page 5

1.ST25.txt

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Ser Pro Glu Asp Asp Pro Thr Cys Lys Thr Lys Glu Phe Trp Ala Thr
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Ile Leu Asp Ser Ala Gly Pro Leu Pro Asp Tyr Thr Pro Pro Glu Ile
                85   90   95

Phe Ser Phe Glu Ser Thr Thr Gly Phe Thr Leu Tyr Gly Met Leu Tyr
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Page 7

                                            1.ST25.txt
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Val Gly Ile His Gly Trp Ser Tyr Gly Gly Tyr Leu Ser Leu Met Ala
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Leu Met Gln Arg Ser Asp Ile Phe Arg Val Ala Ile Ala Gly Ala Pro
            180   185   190

Val Thr Leu Trp Ile Phe Tyr Asp Thr Gly Tyr Thr Glu Arg Tyr Met
        195   200   205

Gly His Pro Asp Gln Asn Glu Gln Gly Tyr Tyr Leu Gly Ser Val Ala
    210   215   220

Met Gln Ala Glu Lys Phe Pro Ser Glu Pro Asn Arg Leu Leu Leu Leu
225   230   235   240

His Gly Phe Leu Asp Glu Asn Val His Phe Ala His Thr Ser Ile Leu
            245   250   255

Leu Ser Phe Leu Val Arg Ala Gly Lys Pro Tyr Asp Leu Gln Ile Tyr
            260   265   270

Pro Gln Glu Arg His Ser Ile Arg Val Pro Glu Ser Gly Glu His Tyr
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                              Page 8

1.ST25.txt

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Gln Pro Phe Glu Ile Leu Phe Glu Gly Val Glu Tyr Ile Ala Arg Ala
        35              40              45

Gly Trp Thr Pro Glu Gly Lys Tyr Ala Trp Ser Ile Leu Leu Asp Arg
    50              55              60

Ser Gln Thr Arg Leu Gln Ile Val Leu Ile Ser Pro Glu Leu Phe Ile
65              70              75              80

Pro Val Glu Asp Asp Val Met Glu Arg Gln Arg Leu Ile Glu Ser Val
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Pro Asp Ser Val Thr Pro Leu Ile Ile Tyr Glu Glu Thr Thr Asp Ile
            100             105             110

Trp Ile Asn Ile His Asp Ile Phe His Val Phe Pro Gln Ser His Glu
        115             120             125

Glu Glu Ile Glu Phe Ile Phe Ala Ser Glu Cys Lys Thr Gly Phe Arg
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His Leu Tyr Lys Ile Thr Ser Ile Leu Lys Glu Ser Lys Tyr Lys Arg
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Ser Ser Gly Gly Leu Pro Ala Pro Ser Asp Phe Lys Cys Pro Ile Lys
            165             170             175

Glu Glu Ile Ala Ile Thr Ser Gly Glu Trp Glu Val Leu Gly Arg His
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Gly Ser Asn Ile Gln Val Asp Glu Val Arg Arg Leu Val Tyr Phe Glu
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Gly Thr Lys Asp Ser Pro Leu Glu His His Leu Tyr Val Val Ser Tyr
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Val Asn Pro Gly Glu Val Thr Arg Leu Thr Asp Arg Gly Tyr Ser His
225             230             235             240

Ser Cys Cys Ile Ser Gln His Cys Asp Phe Phe Ile Ser Lys Tyr Ser
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Asn Gln Lys Asn Pro His Cys Val Ser Leu Tyr Lys Leu Ser Ser Pro
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Glu Asp Asp Pro Thr Cys Lys Thr Lys Glu Phe Trp Ala Thr Ile Leu
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1.ST25.txt

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Asn Glu Gln Gly Tyr Tyr Leu Gly Ser Val Ala Met Gln Ala Glu Lys
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Glu Asn Val His Phe Ala His Thr Ser Ile Leu Leu Ser Phe Leu Val
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Arg Ala Gly Lys Pro Tyr Asp Leu Gln Ile Tyr Pro Gln Glu Arg His
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Ser Ile Arg Val Pro Glu Ser Gly Glu His Tyr Glu Leu His Leu Leu
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1.ST25.txt
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1.ST25.txt

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Thr Pro Ser Gly Gly Lys Ile Leu Arg Ile Leu Tyr Glu Glu Asn Asp
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Glu Ser Glu Val Glu Ile Ile His Val Thr Ser Pro Met Leu Glu Thr
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Arg Arg Ala Asp Ser Phe Arg Tyr Pro Lys Thr Gly Thr Ala Asn Pro
65   70   75   80

Lys Val Thr Phe Lys Met Ser Glu Ile Met Ile Asp Ala Glu Gly Arg
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Ile Ile Val Asp Glu Val Arg Arg Leu Val Tyr Phe Glu Gly Thr Lys
                100   105   110

Asp Ser Pro Leu Glu His His Leu Tyr Val Val Ser Tyr Val Asn Pro
            115   120   125

Gly Glu Val Thr Arg Leu Thr Asp Arg Gly Tyr Ser His Ser Cys Cys
        130   135   140

Ile Ser Gln His Cys Asp Phe Phe Ile Ser Lys Tyr Ser Asn Gln Lys
145   150   155   160

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```
                              1.ST25.txt
Asn Pro His Cys Val Ser Leu Tyr Lys Leu Ser Ser Pro Glu Asp Asp
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```
Pro Thr Cys Lys Thr Lys Glu Phe Trp Ala Thr Ile Leu Asp Ser Ala
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Gly Pro Leu Pro Asp Tyr Thr Pro Pro Glu Ile Phe Ser Phe Glu Ser
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```
Thr Thr Gly Phe Thr Leu Tyr Gly Met Leu Tyr Lys Pro His Asp Leu
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Gln Pro Gly Lys Lys Tyr Pro Thr Val Leu Phe Ile Tyr Gly Gly Pro
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```
Gln Val Gln Leu Val Asn Asn Arg Phe Lys Gly Val Lys Tyr Phe Arg
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```
Leu Asn Thr Leu Ala Ser Leu Gly Tyr Val Val Val Val Ile Asp Asn
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Arg Gly Ser Cys His Arg Gly Leu Lys Phe Glu Gly Ala Phe Lys Tyr
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```
Lys Met Gly Gln Ile Glu Ile Asp Asp Gln Val Glu Gly Leu Gln Tyr
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```
Leu Ala Ser Arg Tyr Asp Phe Ile Asp Leu Asp Arg Val Gly Ile His
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Gly Trp Ser Tyr Gly Gly Tyr Leu Ser Leu Met Ala Leu Met Gln Arg
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Ser Asp Ile Phe Arg Val Ala Ile Ala Gly Ala Pro Val Thr Leu Trp
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```
Ile Phe Tyr Asp Thr Gly Tyr Thr
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1.ST25.txt

240

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